

IN THE CLAIMS

Presented below is a complete list of claims with changes marked up:

1. (Previously presented) A method of communicating between a plurality of functional blocks comprising:

originating a packet;

passing the packet;

decoding the packet to extract configuration information from the packet; and

utilizing the configuration information to configure one of the plurality of functional blocks.

2. (Original) The method of claim 1 wherein:

originating is performed by a master.

3. (Original) The method of claim 2 wherein:

passing is performed by a first target.

4. (Original) The method of claim 3 wherein:

decoding is performed by the first target.


5. (Original) The method of claim 3 wherein:

decoding is performed by a second target.

6. (Previously Presented) The method of claim 5 wherein:
passing is performed by the second target.

7. (Previously Presented) The method of claim 5 wherein:
utilizing is performed by the second target and passing is performed by the second target.

8. (Original) The method of claim 7 further comprising:
removing the packet.



9. (Original) The method of claim 8 wherein:
the first target comprising a ring interface and a control, the second target comprising a
ring interface and a control, the master comprising a ring interface and a control, a ring
connecting to the ring interface of the first target, the ring interface of the second target, and the
ring interface of the master in a daisy chain fashion, the ring used for the passing and the
originating.

10. (Original) The method of claim 9 wherein:
the master performing the removing after the passing brings the packet back to the
master.

11. (Original) The method of claim 1 further comprising:
requesting a ring, the ring used for the originating and the passing; and
granting the ring.

12. (Original) The method of claim 11 wherein:

the originating is performed by a first master.

13. (Previously Presented) The method of claim 12 wherein:

the requesting is performed by a second master.

14. (Original) The method of claim 13 wherein:

the granting is performed by the first master.

15. (Previously Presented) The method of claim 13 wherein:

the granting is performed by an arbitrator.

16. (Original) The method of claim 11 further comprising:

arbitrating between a first master requesting the ring and a second master requesting the ring.

17. (Previously presented) A communications network comprising:

a first master having a ring interface and a control;

a first target having a ring interface and a first decoder;

a first ring connection coupling the ring interface of the first master to the ring interface of the first target to pass a plurality of packets to the first target to configure the first target;

a second target having a ring interface and a second decoder;

a second ring connection coupling the ring interface of the first target to the ring interface

of the second target to pass the plurality of packets to the second target to configure the second target; and

a third ring connection coupling the ring interface of the second target to the ring interface of the first master to pass the plurality of packets from the second target to the first master.

18. (Previously presented) The communications network of claim 17 wherein:
the master originates the plurality of packets which are passed via the first ring connection to the first target.

19. (Previously presented) The communications network of claim 18 wherein:
the first target passes the plurality of packets via the second ring connection to the second target; and
the second target passes the plurality of packets via the third ring connection to the first master.

20. (Original) The communications network of claim 19 wherein:
the first target comprises a first configuration block on an integrated circuit; and
the second target comprises a second configuration block on the integrated circuit.

21. (Previously presented) A communications network comprising:
a first master;
a first target;

a second target; and

a ring coupled to the first master, the first target, and the second target, the ring comprising a packet valid line configured to indicate whether a valid packet is being transmitted on the ring such that configuration information originated from the first master is passed to the first and second targets via the ring to configure the first and second targets.

22. (Previously Presented) The communications network of claim 21 further comprising:

a second master, the ring coupled to the second master.

23. (Original) The communications network of claim 22 further comprising:

an arbitrator, the arbitrator coupled to the first master, the arbitrator coupled to the second master, the arbitrator controlling activity of the first master and the second master.

24. (Original) The communications network of claim 22 further comprising:

a request line, the request line coupled to the first master, the request line coupled to the second master; and

a grant line, the grant line coupled to the first master, the grant line coupled to the second master.

25. (Original) The communications network of claim 24 further comprising:

the request line configured to pass signals in a first direction, the grant line configured to pass signals in a second direction.

26. (Original) The communications network of claim 25 wherein:
the first direction and the second direction dynamically alterable.

27. (Original) The communications network of claim 22 further comprising:
a request line, the request line coupled to the first master, the request line coupled to the
second master, the request line coupled to the first target, the request line coupled to the second
target.

28. (Previously Presented) The communications network of claim 27 wherein:
the request line configured such that signals flow in a logically opposite direction to
signals on the ring.

29. (Original) The communications network of claim 28 wherein:
the ring comprising a grant line and a set of data lines, the grant line configured to
indicate a master may use the ring, the data lines configured to transmit signals.

30. (Canceled)

31. (Original) The communications network of claim 21 wherein:
the ring comprising a set of data lines, the data lines configured to transmit signals.

32. (Original) The communications network of claim 31 wherein:
the first master utilizing the ring to transmit signals to the first target, the first target

utilizing the ring to transmit signals to the second target, the second target utilizing the ring to transmit signals to the first master.

33. (Original) The communications network of claim 31 wherein:

the first master comprising a ring interface coupled to the ring and a control coupled to the ring interface, the control suitable for generating packets, the packets transmitted through the ring interface to become signals on the ring.

34. (Original) The communications network of claim 33 wherein:

the first target comprising a ring interface and a decoder coupled to the ring interface, the decoder receiving the signals that represent a packet, the decoder determining if the packet is addressed to the first target.

35. (Original) The communications network of claim 34 wherein:

the second target comprising a ring interface and a decoder coupled to the ring interface, the decoder receiving the signals that represent a packet, the decoder determining if the packet is addressed to the second target.

36. (Previously Presented) The communications network of claim 35 wherein:

the packet comprised of a header and a set of data, the header including an indication of the logical size of the set of data.

37. (Previously Presented) The communications network of claim 35 wherein:
the packet comprised of a fixed number of units of data, the units of data encoding an
address.

38. (Original) The communications network of claim 21 wherein:
the first master, the first target and the second target on an integrated circuit.

39. (Original) The communications network of claim 21 wherein:
the first master and the first target on a first integrated circuit, the second target on a
second integrated circuit.

40. (Original) The communications network of claim 21 wherein:
the first master on a first integrated circuit, the first target on a second integrated circuit.

41. (Original) The communications network of claim 22 wherein:
the second master comprising a buffer, the buffer utilized for storing incoming data when
the second master originates a packet, the incoming data passed after the second master
completes origination of the packet.

42. (Previously presented) A system comprising:
a processor;
a processor bus coupled to the processor;
a data chip coupled to the processor bus; and

an address chip coupled to the processor bus and coupled to the data chip, the address chip including a configuration ring, the configuration ring having a master, a first target and a second target, the master coupled through a ring to the first target, the first target coupled through the ring to the second target, the second target coupled through the ring to the master, wherein the master originates a plurality of packets containing configuration information and passes the plurality of packets to the first and second targets via the ring to configure the first and second targets.


43. (New) A system comprising:

a graphics memory device;

an accelerated graphics port; and

a graphics expander bridge coupled to the graphics memory device and the accelerated graphics port, the graphics expander bridge comprising a plurality of functional blocks and a ring by which the plurality of functional blocks are coupled to each other, the ring and the plurality of functional blocks residing on a single integrated circuit chip, each of the plurality of functional blocks having a decoder and a plurality of configuration registers, wherein one of the plurality of functional blocks originates one or more packets containing configuration information and passes the one or more packets to one or more of the remaining functional blocks via the ring to configure the one or more of the remaining function blocks.

44. (New) The system of claim 43, wherein each of the plurality of functional blocks further comprises a ring interface to couple to the ring.



45. (New) The system of claim 43, wherein the ring comprises a plurality of data lines to transmit the one or more packets.
